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\*Admitted only in Maryland  
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\*Practice Limited to  
Federal Agencies

October 18, 2006

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Art Unit 1645**

**Mail Stop: Amendment**

Re: U.S. Utility Patent Appl. No. 10/550,580; § 371 Date: September 23, 2005  
U.S. National Phase of Intl. Appl. No. PCT/EP04/003163  
International Filing Date: March 25, 2004  
For: **HIV-Peptide-Carrier-Conjugates**  
Inventors: Martin F. BACHMANN *et al.*  
Our Ref: 1700.0610001/BJD/WBC

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement Under 37 C.F.R. § 1.97(b);
2. Form PTO-1449 (9 pages) citing seventy (70) documents (AA1-AD3 and AL1-AO9);
3. Copies of forty-four (44) cited documents (AL1-AP1; AL2-AP2; AL3-AP3; AL4-AP4; AL5-AP5; AL6-AP6; AL7-AP7; AL8-AP8; AL9-AO9);
4. Form PTO/SB/08B (9 pages) citing eighty-six (86) documents (NPL1-NPL86);
5. Copies of eighty-six (86) cited documents (NPL1-NPL10; NPL11-NPL20; NPL21-NPL30; NPL31-NPL40; NPL41-NPL50; NPL51-NPL60; NPL61-NPL70; NPL71-NPL80; and NPL81-NPL86); and
6. One (1) Return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents  
October 18, 2006  
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

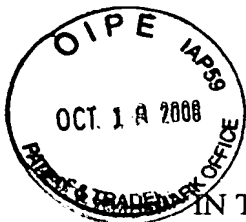
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "BJ Del Buono", with a long horizontal flourish extending to the right.

Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

BJD/WBC:cpn  
Enclosures

596538\_1.DOC



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Martin F. BACHMANN *et al.*

Appl. No.: 10/550,580

(U.S. National Phase of Intl. Appl. No.  
PCT/EP04/003163)

Filed: September 23, 2005  
(Int'l Filing Date: March 25, 2004)

For: **HIV-Peptide-Carrier-Conjugates**

Confirmation No.: 8355

Art Unit: 1645

Examiner: *To Be Assigned*

Atty. Docket: 1700.0610001/BJD/WBC

**Information Disclosure Statement Under 37 C.F.R. § 1.97(b)**

***Mail Stop Amendment***

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms, PTO-1449 and PTO/SB/08B, are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents **AL1** to **AO9** and **NPL1** to **NPL86** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents and patent application publications, **AA1** to **AD3**, cited on the attached IDS Form, PTO-1449, are not submitted.

In accordance with 37 C.F.R. § 1.97(a)(3), Applicants' undersigned representative submits the following discussion of the relevance of the non-English language documents **AN1** and **AP3** cited on Form PTO 1449:

Document **AN1**, EP 0 201 416 B1, is in a foreign language. An English language abstract of document **AN1** is attached as **NPL86**.

Document **AP3**, WO 99/28478 A1, is in a foreign language. An English language abstract of document **AP3** is provided on the face page of the document.

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter:

Application No. 10/112,653, inventors Krieg *et al.*, filed March 29, 2002; published on March 13, 2003 as U.S. Publication No. 2003/0050268 A1; listed as Document AC3; and

Application No. 09/789,649, inventors Valmori *et al.*, filed February 21, 2001; published on May 1, 2003 as U.S. Publication No. 2003/0082804; listed as Document AD3.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: Oct. 18, 2006

1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600

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FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.  
1700.0610001/BJD/WBC

 APPLICATION NO.  
10/550,580

 FIRST NAMED INVENTOR  
Bachmann, M.

 FILING DATE  
September 23, 2005

 ART UNIT  
1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,722,840	02/02/1988	Valenzuela <i>et al.</i>			09/19/1985
	AB1	4,959,314	09/25/1990	Mark <i>et al.</i>			02/07/1985
	AC1	5,143,726	09/01/1992	Thornton <i>et al.</i>			11/20/1989
	AD1	5,334,394	08/02/1994	Kossovsky <i>et al.</i>			01/04/1993
	AE1	5,565,548	10/15/1996	Neurath <i>et al.</i>			03/15/1993
	AF11	5,698,424	12/16/1997	Mastico <i>et al.</i>			06/26/1992
	AG1	5,844,075	12/01/1998	Kawakami <i>et al.</i>			04/05/1995
	AH1	5,871,747	02/16/1999	Gengoux-Sedlik <i>et al.</i>			09/13/1993
	AI1	5,874,560	02/23/1999	Kawakami <i>et al.</i>			04/22/1994
	AJ1	5,935,821	08/10/1999	Chatterjee <i>et al.</i>			11/21/1996
	AK1	5,939,598	08/17/1999	Kucherlapati <i>et al.</i>			07/30/1992

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	EP 0 038 154 B1	10/21/1981	Europe			Yes No
	AM1	EP 0 385 610 B1	09/05/1990	Europe			Yes No
	AN1	EP 0 201 416 B1	04/10/1991	Europe			X Yes No
	AO1	EP 0 421 635 A1	04/10/1991	Europe			Yes No
	AP1	WO 92/13081 A1	08/06/1992	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

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September 23, 2005ART UNIT  
1645**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,994,523	11/30/1999	Kawakami <i>et al.</i>			01/16/1998
	AB2	6,025,470	02/15/2000	Valmori <i>et al.</i>			06/23/1997
	AC2	6,231,864 B1	05/15/2001	Birkett			02/11/1999
	AD2	6,270,778 B1	08/07/2001	Kawakami <i>et al.</i>			03/12/1999
	AE2	6,277,956 B1	08/21/2001	Valmori <i>et al.</i>			04/16/1998
	AF2	6,326,200 B1	12/04/2001	Valmori <i>et al.</i>			06/18/1998
	AG2	6,368,857 B1	04/09/2002	Valmori <i>et al.</i>			10/05/1999
	AH2	6,380,364 B1	04/30/2002	Mueller <i>et al.</i>			10/06/1999
	AI22	6,384,190 B1	05/07/2002	Valmori <i>et al.</i>			12/14/1999
	AJ2	6,537,560 B1	03/25/2003	Kawakami <i>et al.</i>			05/05/1998
	AK2	6,627,202 B2	09/30/2003	Murray			06/04/2001

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	EP 0 578 293 A1	01/12/1994	Europe			Yes No
	AM2	WO 94/15585	07/21/1994	WIPO			Yes No
	AN2	WO 95/29193 A2	11/02/1995	WIPO			Yes No
	AO2	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AP2	EP 0 677 111 B1	10/18/1995	Europe			Yes No

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1645**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA3	6,719,978 B2	04/13/2004	Schiller et al.			04/13/2001
	AB3	6,965,017 B2	11/15/2005	Kawakami et al.			07/03/2001
	AC3	2003/0050268 A1	03/13/2003	Krieg et al.			03/29/2002
	AD3	2003/0082804 A1	05/01/2003	Valmori et al.			02/21/2001
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	WO 98/40100 A1	09/17/1998	WIPO			Yes No
	AM3	WO 98/50071 A1	11/12/1998	WIPO			Yes No
	AN3	WO 98/49195 A1	11/05/1998	WIPO			Yes No
	AO3	WO 98/58751 A1	12/30/1998	WIPO			Yes X No
	AP3	WO 99/28478 A1	06/10/1999	WIPO			Yes No

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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4	WO 99/40934 A1	08/19/1999	WIPO			Yes No
	AM4	WO 99/57289 A2	11/11/1999	WIPO			Yes No
	AN4	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AO4	WO 00/32227 A2	06/08/2000	WIPO			Yes No
	AP4	WO 00/37610 A2	06/29/2000	WIPO			Yes No

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5	WO 00/39304 A2	07/06/2000	WIPO			Yes No
	AM5	WO 00/50461 A1	08/31/2000	WIPO			Yes No
	AN5	WO 00/62800 A2	10/26/2000	WIPO			Yes No
	AO5	WO 01/16320 A1	03/08/2001	WIPO			Yes No
	AP5	WO 01/22972 A2	04/05/2001	WIPO			Yes No

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6	WO 01/22990 A2	04/05/2001	WIPO			Yes No
	AM6	WO 01/56603 A1	08/09/2001	WIPO			Yes No
	AN6	WO 01/58478 A1	08/16/2001	WIPO			Yes No
	AO6	WO 01/77158 A1	10/18/2001	WIPO			Yes No
	AP6	WO 01/85208 A2	11/15/2001	WIPO			Yes No

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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7	WO 01/98333 A2	12/27/2001	WIPO			Yes No
	AM7	WO 02/14478 A2	02/21/2002	WIPO			Yes No
	AN7	WO 02/053141 A2	07/11/2002	WIPO			Yes No
	AO7	WO 02/056905 A2	07/25/2002	WIPO			Yes No
	AP7	WO 02/056907 A2	07/25/2002	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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FORM PTO-1449

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Bachmann, M.FILING DATE  
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL8	WO 03/024480 A2	03/27/2003	WIPO			Yes No
	AM8	WO 03/024481 A2	03/27/2003	WIPO			Yes No
	AN8	WO 03/031466 A2	04/17/2003	WIPO			Yes No
	AO8	WO 03/039225 A2	05/15/2003	WIPO			Yes No
	AP8	WO 03/040164 A2	05/15/2003	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL9	WO 03/059386 A2	07/24/2003	WIPO			Yes No
	AM9	WO 2004/000351 A1	12/31/2003	WIPO			Yes No
	AN9	WO 04/007538 A2	01/22/2004	WIPO			Yes No
	AO9	WO 2004/016282 A1	02/26/2004	WIPO			Yes No
	AP						Yes No

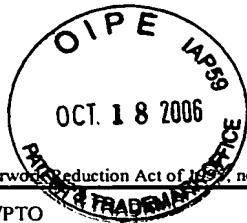
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/550,580
				Filing Date	September 23, 2005
				First Named Inventor	Martin F. BACHMANN
				Art Unit	1645
				Examiner Name	To Be Assigned
Sheet	1	of	9	Attorney Docket Number	1700.0610001/BJD/WBC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T <sup>2</sup>
	NPL1	Adams, S.E., <i>et al.</i> , "The expression of hybrid HIV:Ty virus-like particles in yeast," <i>Nature</i> 329:68-70, Nature Publishing Group (1987)	
	NPL2	Addo, M.M., <i>et al.</i> , "Comprehensive Epitope Analysis of Human Immunodeficiency Virus Type 1 (HIV-1)-Specific T-Cell Responses Directed Against the Entire Expressed HIV-1 Genome Demonstrate Broadly Directed Responses, but No Correlation to Viral Load," <i>J. Virol.</i> 77:2081-2092, American Society for Microbiology (2003)	
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	NPL4	Altschul, S.F., <i>et al.</i> , "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> 215:403-410, Academic Press Limited (1990)	
	NPL5	Altschul, S.F., <i>et al.</i> , "Issues in searching molecular sequence databases," <i>Nature Genet.</i> 6:119-29, Nature Publishing Group (1994)	
	NPL6	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews Inc. (1997)	
	NPL7	Bachmann, M.F., and Zinkernagel, R., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science Ltd. (1996)	
	NPL8	Bachmann, M.F., <i>et al.</i> , "Induction of protective cytotoxic T cells with viral proteins," <i>Eur. J. Immunol.</i> 24:2228-2236, VCH Verlagsgesellschaft mbH (1994)	
	NPL9	Bachmann, M.F., <i>et al.</i> , "Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8 <sup>+</sup> cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 26:2595-2600, VCH Verlagsgesellschaft mbH (1996)	
	NPL10	Belsche, R.B., <i>et al.</i> , "Safety and immunogenicity of a Canarypox-Vectored Human Immunodeficiency Virus Type I Vaccine with or without gp120: A Phase 2 Study in Higher- and Lower-Risk Volunteers," <i>J. Infect. Dis.</i> 183:1343-1352, Infectious Diseases Society of America (2001)	

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				Filing Date	September 23, 2005
				First Named Inventor	Martin F. BACHMANN
				Art Unit	1645
				Examiner Name	To Be Assigned
Sheet	2	of	9	Attorney Docket Number	1700.0610001/BJD/WBC

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	NPL11	Berthet-Colominas, C., <i>et al.</i> , "Head-to-tail dimers and interdomain flexibility revealed by the crystal structure of HIV-1 capsid protein (p24) complexed with a monoclonal antibody Fab," <i>EMBO J.</i> 18:1124-1136, European Molecular Biology Organization (1999)	
	NPL12	Borisova, G., <i>et al.</i> , "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," <i>J. Virol.</i> 67: 3696-3701, American Society for Microbiology (1993)	
	NPL13	Brown, W.L., <i>et al.</i> , "RNA Bacteriophage Capsid-Mediated Drug Delivery and Epitope Presentation," <i>Intervirology</i> 45:371-80, S. Karger A.G. (July-December 2002)	
	NPL14	Buonaguro, L., <i>et al.</i> , "High efficient production of Pr55 <sup>gag</sup> virus-like particles expressing multiple HIV-1 epitopes, including a gp120 protein derived from an Ugandan HIV-1 isolate of subtype A," <i>Antiviral Res.</i> 49:35-47, Elsevier Science B.V. (2001)	
	NPL15	Clarke, B.E., <i>et al.</i> , "Presentation and immunogenicity of viral epitopes on the surface of hybrid hepatitis B virus core particles produced in bacteria," <i>J. Gen. Virol.</i> 71:1109-1117, Society for General Microbiology (1990)	
	NPL16	DeClercq, E., "Interferon Induction by Polynucleotides, Modified Polynucleotides, and Polycarboxylates," <i>Methods Enzymol.</i> 78:227-36, Academic Press Ltd. (1981)	
	NPL17	Eckhardt, S.G., <i>et al.</i> , "Hepatitis B Virus Core Antigen Has Two Nuclear Localization Sequences in the Arginine-Rich Carboxyl Terminus," <i>J. Virol.</i> 65:575-582, American Society for Microbiology (1991)	
	NPL18	Engleman, E.G., "Dendritic cells: Potential role in cancer therapy," <i>Cytotechnology</i> 25:1-8, Kluwer Academic Publishers (1997)	
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	NPL20	Fehr, T., <i>et al.</i> , "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J. Exp. Med.</i> 185:1785-92, The Rockefeller University Press (1997)	

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	NPL21	Fitchen, J., <i>et al.</i> , "Plant virus expressing hybrid coat protein with added murine epitope elicits autoantibody response," <i>Vaccine</i> 13:1051-107, Elsevier Science Ltd. (1995)	
	NPL22	Franken, P., <i>et al.</i> , "HIV-1 Nef protein: Purification, crystallizations, and preliminary X-ray diffraction studies," <i>Protein Sci.</i> 6:2681-2683, Cold Spring Harbor Laboratory Press (1997)	
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	NPL24	Geysen, H.M., <i>et al.</i> , "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," <i>Proc. Natl. Acad. Sci. USA</i> 81:3998-4002, National Academy of Sciences (1984)	
	NPL25	Gilbert, S.C., <i>et al.</i> , "A protein particle vaccine containing multiple malaria epitopes," <i>Nat. Biotechnol.</i> 15:1280-1284, Nature America Publishing (1997)	
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	NPL27	Goldberg, A.L., <i>et al.</i> , "The importance of the proteasome and subsequent proteolytic steps in the generation of antigenic peptides," <i>Mol. Immunol.</i> 39:147-164, Elsevier Science Ltd. (October 2002)	
	NPL28	Golmohammadi, R., <i>et al.</i> , "The crystal structure of bacteriophage Q beta at 3.5 Å resolution," <i>Structure</i> 4:543-54, Current Biology Ltd. (1996)	
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	NPL30	Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933, The American Association of Immunologists (1994)	

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	NPL31	Huston, J.S., <i>et al.</i> , "Protein Engineering of Single-Chain Fv Analogs and Fusion Proteins," <i>Methods Enzymol.</i> 203:46-88, Academic Press, Inc. (1991)	
	NPL32	Jegerlehner, A., <i>et al.</i> , "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," <i>Vaccine</i> 20:3104-3112, Elsevier Science Ltd. (August 2002)	
	NPL33	Jin, X., <i>et al.</i> , "Dramatic Rise in Plasma Viremia After CD8 <sup>+</sup> T Cell Depletion in Simian Immunodeficiency Virus-infected Macaques," <i>J. Exp. Med.</i> 189:991-8, The Rockefeller University Press (1999)	
	NPL34	Kaisho, T., and Akira, S., "Toll-like receptors as adjuvant receptors," <i>Biochim. Biophys. Acta.</i> 1589:1-13, Elsevier Science B.V. (February 2002)	
	NPL35	Kang, C.Y., <i>et al.</i> , "Development of HIV/AIDS Vaccine Using Chimeric gag-env Virus-Like Particles," <i>Biol. Chem.</i> 380:353-364, Walter De Gruyter (1999)	
	NPL36	Klinman, D.M., <i>et al.</i> , "Immunotherapeutic Applications of CpG-Containing Oligodeoxynucleotides," <i>Drug News Perspect.</i> 13:289-296, Prous Science (2000)	
	NPL37	Klovins, J., <i>et al.</i> , "Nucleotide sequence of a ssRNA phage from <i>Acinetobacter</i> : kinship to coliphages," <i>J. Gen. Virol.</i> 83:1523-1533, SGM (June 2002)	
	NPL38	Kovacsovics-Bankowski, M., <i>et al.</i> , "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophages," <i>Proc. Natl. Acad. Sci. USA</i> 90:4942-4946, The National Academy of Sciences(1993)	
	NPL39	Kozlovskaya, T.M., <i>et al.</i> , "Recombinant RNA phage Q $\beta$ capsid particles synthesized and self-assembled in <i>Escherichia coli</i> ," <i>Gene</i> 137:133-137, Elsevier Science Publishers B.V. (1993)	
	NPL40	Kozlovskaya, T. M., <i>et al.</i> , "RNA phage Q $\beta$ Coat Protein as a Carrier for Foreign Epitopes," <i>Intervirology</i> 39:9-15, S. Karger A.G. (1996)	

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	NPL41	Kratz, P.A., <i>et al.</i> , "Native display of complete foreign protein domains on the surface of hepatitis B virus capsids," <i>Proc. Natl. Acad. Sci. USA</i> 96:1915-1920, National Academy of Sciences(1999)	
	NPL42	Krug, A., <i>et al.</i> , "Identification of CpG oligonucleotide sequences with high induction of IFN- $\alpha/\beta$ in plasmacytoid dendritic cells," <i>Eur. J. Immunol.</i> 31:2154-2163, Wiley-vch Verlag GmbH (2001)	
	NPL43	Kuramoto, E., <i>et al.</i> , "Oligonucleotide Sequences Required for Natural Killer Cell Activation," <i>Jpn. J. Cancer Res.</i> 83:1128-1131, Japanese Cancer Association (1992)	
	NPL44	Lechner, F., <i>et al.</i> , "Virus-Like Particles as a Modular System for Novel Vaccines," <i>Intervirology</i> 45:212-217, S. Karger A.G. (July-December 2002)	
	NPL45	Levy, H.B., "Induction of Interferon <i>in vivo</i> and <i>in vitro</i> by Polynucleotides and Derivatives, and Preparation of Derivatives," <i>Methods Enzymol.</i> 78:242-51, Academic Press, Inc. (1981)	
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	NPL47	Luo, L., <i>et al.</i> , "Induction of V3-Specific Cytotoxic T Lymphocyte Responses by HIV gag Particles Carrying Multiple Immunodominant V3 Epitopes of gp120," <i>Virology</i> 240:316-325, Academic Press (1998)	
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	NPL49	Martin, S.J., <i>et al.</i> , "Immunization of human HIV-seronegative volunteers with recombinant p17/p24:Ty virus-like particles elicits HIV-1 p24-specific cellular and humoral immune responses," <i>AIDS</i> 7:1315-23, Current Science Ltd. (1993)	
	NPL50	McMichael, A.J., and Rowland-Jones, S.L., "Cellular immune responses to HIV," <i>Nature</i> 410:980-987, Macmillan Magazines Ltd. (2001)	

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	NPL51	Moingeon, P., "Strategies for designing vaccines eliciting Th1 responses in humans," <i>J. Biotechnol.</i> 98: 189-198, Elsevier Science B.V. (September 2002)	
	NPL52	Moss, R.B., <i>et al.</i> , "In vitro immune function after vaccination with an inactivated, gp120-depleted HIV-1 antigen with immunostimulatory oligodeoxynucleotides," <i>Vaccine</i> 18:1081-1087, Elsevier Science Ltd. (2000)	
	NPL53	Neiryneck, S., <i>et al.</i> , "A universal influenza A vaccine based on the extracellular domain of the M2 protein," <i>Nature Med.</i> 5:1157-1163, Nature America Inc. (1999)	
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	NPL57	Oxenius, A., <i>et al.</i> , "CpG-Containing Oligonucleotides are Efficient Adjuvants for Induction of Protective Antiviral Immune Responses with T-Cell Peptide Vaccines," <i>J. Virol.</i> 73:4120-4126, American Society for Microbiology (1999)	
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	NPL60	Pearson, W.R., "Rapid and Sensitive Sequence Comparison with FASTP and FASTA," <i>Methods Enzymol.</i> 183:63-98, Academic Press, Inc. (1990)	

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	NPL61	Preikschat, P., <i>et al.</i> , "Expression, assembly competence and antigenic properties of hepatitis B virus core gene deletion variants from infected liver cells," <i>J. Gen. Virol.</i> 80:1777-1788, SGM (1999)	
	NPL62	Pumpens, P., and Grens, E., "HBV Core Particles as a Carrier for B Cell/T Cell Epitopes," <i>Intervirology</i> 44:98-114, S. Karger AG (2001)	
	NPL63	Pushko, P., <i>et al.</i> , "Analysis of RNA phage <i>φ</i> coat protein assembly by insertion, deletion and substitution mutagenesis," <i>Protein Eng.</i> 6:883-891, Oxford University Press (1993)	
	NPL64	Roth, J.F., "The yeast Ty virus-like particles," <i>Yeast</i> 16:785-95, John Wiley & Sons, Ltd. (2000)	
	NPL65	Rueda, P., <i>et al.</i> , "Minor Displacements in the Insertion Site Provoke Major Differences in the Induction of Antibody Responses by Chimeric Parvovirus-like Particles," <i>Virology</i> 263:89-99, Academic Press (1999)	
	NPL66	Ruedl, C., <i>et al.</i> , "Cross-presentation of virus-like particles by skinderived CD8 <sup>+</sup> dendritic cells: a dispensable role for TAP," <i>Eur. J. Immunol.</i> 32: 818-825, Wiley-VCH Verlag GmbH (March 2002)	
	NPL67	Salunke, D.M., <i>et al.</i> , "Self-assembly of purified polyomavirus capsid protein VP1," <i>Cell</i> 46:895-904, Cell Press (1986)	
	NPL68	Sasnauskas, K., <i>et al.</i> , "Yeast Cells Allow High-Level Expression and Formation of Polyomavirus-Like Particles," <i>Biol. Chem.</i> 380:381-386, Walter De Gruyter (1999)	
	NPL69	Shiver, J.W., <i>et al.</i> , "Replication-incompetent adenoviral vaccine vector elicits effective antiimmunodeficiency-virus immunity," <i>Nature</i> 415:331-335, Macmillan Magazines Ltd. (January 2002)	
	NPL70	Slepushkin, V.A., <i>et al.</i> , "Protection of mice against influenza A virus challenge by vaccination with baculovirus-expressed M2 protein," <i>Vaccine</i> 13:1399-402, Elsevier Science Ltd. (1995)	

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				Application Number	10/550,580	
				Filing Date	September 23, 2005	
				First Named Inventor	Martin F. BACHMANN	
				Art Unit	1645	
				Examiner Name	To Be Assigned	
Sheet	8	of	9	Attorney Docket Number		1700.0610001/BJD/WBC

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	NPL71	Smiley, B.K., and Minion, F.C., "Enhanced readthrough of opal (UGA) stop codons and production of <i>Mycoplasma pneumoniae</i> P1 epitopes in <i>Escherichia coli</i> ," <i>Gene</i> 134:33-40, Elsevier Science Publishers B.V. (1993)	
	NPL72	Sparwasser, T., <i>et al.</i> , "Immunostimulatory CpG-Oligodeoxynucleotides Cause Extramedullary Murine Hemopoiesis," <i>J. Immunol.</i> 162:2368-2374, American Association of Immunologists (1999)	
	NPL73	Steinman, R.M., "Dendritic cells and immune-based therapies," <i>Exp. Hematol.</i> 24:859-862, International Society for Experimental Hematology (1996)	
	NPL74	Storni, T., <i>et al.</i> , "Critical Role for Activation of Antigen-Presenting Cells in Priming of Cytotoxic T Cell Responses After Vaccination with Virus-Like Particles," <i>J. Immunol.</i> 168(6):2880-2886, The American Association of Immunologists (March 2002)	
	NPL75	Taylor, K.M., <i>et al.</i> , "Position-Dependent Processing of Peptides Presented on the Surface of Cowpea Mosaic Virus," <i>Biol. Chem.</i> 380:387-392, Walter De Gruyter (1999)	
	NPL76	Toes, R.E., <i>et al.</i> , "Discrete Cleavage Motifs of Constitutive and Immunoproteasomes Revealed by Quantitative Analysis of Cleavage Products," <i>J. Exp. Med.</i> 194:1-12, The Rockefeller University Press (2001)	
	NPL77	Torrence, P.F., "Preparation of a Synthetic Polynucleotide Interferon Inducer," <i>Methods Enzymol.</i> 78:326-331, Academic Press Inc. (1981)	
	NPL78	Touze, A., <i>et al.</i> , "Gene transfer using human polyomavirus BK virus-like particles expressed in insect cells," <i>J. Gen. Virol.</i> 82:3005-3009, Society for General Microbiology (2001)	
	NPL79	Townsend, A., and Bodmer, H., "Antigen Recognition by Class I-Restricted T Lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews Inc. (1989)	
	NPL80	Turner, B.G., and Summers, M.F., "Structural Biology of HIV," <i>J. Mol. Biol.</i> 285:1-32, Academic Press (1999)	

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	NPL81	Van Schooten, W., <i>et al.</i> , "Biological properties of dendritic cells: implications to their use in the treatment of cancer," <i>Mol. Med. Today</i> 255:254-260, Elsevier Science Ltd. (1997)	
	NPL82	Vasiljeva, I., <i>et al.</i> , "Mosaic Q $\beta$ coats as a new presentation model," <i>FEBS Lett.</i> 431:7-11, Federation of European Biochemical Societies (1998)	
	NPL83	Witte, L., <i>et al.</i> , "Monoclonal antibodies targeting the VEGF receptor-2 (Flk1/KDR) as an anti-angiogenic therapeutic strategy," <i>Cancer Metastasis Rev.</i> 17:155-61, Kluwer Academic Publishers (1998)	
	NPL84	Yuan, T.T., <i>et al.</i> , "Subtype-Independent Immature Secretion and Subtype-Dependent Replication Deficiency of a Highly Frequent, Naturally Occurring Mutation of Human Hepatitis B Virus Core Antigen." <i>J. Virol.</i> 73:10122-10128, American Society for Microbiology (1999)	
	NPL85	Zhou, S., <i>et al.</i> , "Cys Residues of the Hepatitis B Virus Capsid Protein Are Not Essential for the Assembly of Viral Core Particles but Can Influence Their Stability," <i>J. Virol.</i> 66:5393-5398, American Society for Microbiology (1992)	
	NPL86	Dialog File 351, Accession No. 3908140, English language abstract for EP 0 201 416 B1	

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